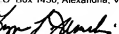


10570047 - GAU: 1635
1635
Jru

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: November 1, 2006

Signature:


(Lynn T. Janusz)Docket No.: 29636/39363A
(PATENT)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:
Rolf Jessberger et al.

Application No.: 10/570,047

Filed: February 28, 2006

Art Unit: Not Yet Assigned

For: METHODS FOR IDENTIFYING,
TREATING, AND INDUCING
INFERTILITY USING SMC1-BETA

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 C.F.R. §1.97(b)(3)). Applicants submit herewith copies of non-patent literature in accordance with 37 C.F.R. §1.98(a)(2).

In accordance with 37 C.F.R. §1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(a) exists. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to

Application No.: 10/570,047

Docket No.: 29636/39363A

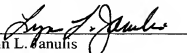
be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. §1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm except for the Issue Fee) to our Deposit Account No. 13-2855, under Order No. 29636/39363A. A copy of this paper is enclosed.

Dated: November 1, 2006

Respectfully submitted,

By 
Lynn L. Gerstein

Registration No.: 53,066

MARSHALL, GERSTEIN & BORUN LLP

233 S. Wacker Drive, Suite 6300

Sears Tower

Chicago, Illinois 60606-6357

(312) 474-6300

Agent for Applicants



Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/US/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 6

Complete if Known

Application Number	10/570,047
Filing Date	February 28, 2006
First Named Inventor	Rolf Jessberger
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29636/39363A

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issu number(s), publisher, city and/or country where published.	T ²
	C1	ADACHI <i>et al.</i> , "Bidirectional Gene Organization: A Common Architectural Feature of the Human Genome," <i>Cell</i> 109:807-809, 2002.	
	C2	AKHMEDOV <i>et al.</i> , "Structural Maintenance of Chromosomes Protein C-Terminal Domains Bind Preferentially to DNA with Secondary Structure," <i>J. Biol. Chem.</i> 273:24088-24094, 1998.	
	C3	AKHMEDOV <i>et al.</i> , "Mammalian SMC3 C-Terminal and Coiled-Coil Protein Domains Specifically Bind Palindromic DNA, Do Not Block DNA Ends, and Prevent DNA Bending," <i>J. Biol. Chem.</i> 274:38216-38224, 1999.	
	C4	BARLOW <i>et al.</i> , "Atm Deficiency Results in Severe Meiotic Disruption as Early as Leptonema of Prophase I," <i>Development</i> 125:4007-4017, 1998.	
	C5	BLAT <i>et al.</i> , "Cohesins Bind to Preferential Sites along Yeast Chromosome III, with Differential Regulation Along Arms Versus the Centric Region," <i>Cell</i> 98:249-259, 1999.	
	C6	BORGGREFE <i>et al.</i> , "Cellular, Intracellular, and Developmental Expression Patterns of Murine SWAP-70," <i>Europ. J. Immunol.</i> 29:1812-1822, 1999.	
	C7	BORGGREFE <i>et al.</i> , "Impaired IgE Response in SWAP-70-Deficient Mice," <i>Europ. J. Immunol.</i> 31:2467-2475, 2001.	
	C8	CHOI <i>et al.</i> , "DNA Hypomethylation and Germ Cell-Specific Expression of Testis-Specific H2B Histone Gene," <i>J. Biol. Chem.</i> 266:20504-20511, 1991.	
	C9	CHUANG <i>et al.</i> , "Sex-Specific Assembly of a Dosage Compensation Complex on the Nematode X Chromosome," <i>Science</i> 274:1736-1738, 1996.	
	C10	CLARK <i>et al.</i> , "High Sensitivity Mapping of Methylated Cytosines," <i>Nucleic Acids Res.</i> 22:2990-2997, 1994.	

Examiner Signature	/Dana Shin/	Date Considered	09/02/2008
--------------------	-------------	-----------------	------------

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/570,047	
			Filing Date	February 28, 2006	
			First Named Inventor	Rolf Jessberger	
			Art Unit	Not Yet Assigned	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	6	Attorney Docket Number	29636/39363A

C11	CLIFTON <i>et al.</i> , "Pachytene Spermatocytes in Co-Culture Inhibit Rat Sertoli Cell Synthesis of Inhibin β B-Subunit and Inhibin B but not the Inhibin α -Subunit," <i>J. Endocrinol.</i> 172:565-574, 2002.		
C12	COBBE <i>et al.</i> , "Review: SMCs in the World of Chromosome Biology—From Prokaryotes to Higher Eukaryotes," <i>J. Struct. Biol.</i> 129:123-143, 2000.		
C13	DIX <i>et al.</i> , "Developmentally Regulated Expression of <i>Hsp70-2</i> and <i>Hsp70-2/lacZ</i> Transgene during Spermatogenesis," <i>Dev. Biol.</i> 174:310-321, 1996.		
C14	EGOZCUE <i>et al.</i> , "Increased Incidence of Meiotic Anomalies in Oligoasthenozoospermic Males Preselected for Intracytoplasmic Sperm Injection," <i>J. Assist. Reprod. Genet.</i> 17:307-309, 2000.		
C15	EIJPE <i>et al.</i> , "Association of Mammalian SMC1 and SMC3 Proteins with Meiotic Chromosomes and Synaptonemal Complexes," <i>J. Cell Sci.</i> 113:673-682, 2000.		
C16	EIJPE <i>et al.</i> , "Meiotic Cohesin REC8 Marks the Axial Elements of Rat Synaptonemal Complexes before Cohesins SMC1 β and SMC3," <i>J. Cell Biol.</i> , 160: 657-670, 2003.		
C17	FENG <i>et al.</i> , "Generation and <i>In Vitro</i> Differentiation of a Spermatogonial Cell Line," <i>Science</i> 297:392-395, 2002.		
C18	GADGIL <i>et al.</i> , "Oligonucleotide Trapping Method for Purification of Transcription Factors," <i>J. Chromatogr. A</i> 966:99-110, 2002.		
C19	GROSS <i>et al.</i> , "SWAP-70-Deficient Mast Cells are Impaired in Development and IgE-Mediated Degranulation," <i>Europ. J. Immunol.</i> 32:1121-1128, 2002.		
C20	GUACCI <i>et al.</i> , "A Direct Link between Sister Chromatid Cohesion and Chromosome Condensation Revealed through the Analysis of <i>MCD1</i> in <i>S. cerevisiae</i> ," <i>Cell</i> 91:47-57, 1997.		
C21	HIRANO <i>et al.</i> , "Condensins, Chromosome Condensation Protein Complexes Containing XCAP-C, XCAP-E and a Xenopus Homolog of <i>Drosophila</i> Barren Protein," <i>Cell</i> 89:511-521, 1997.		
C22	HIRANO, "SMC Protein Complexes and Higher-Order Chromosome Dynamics," <i>Curr. Opin. Cell. Biol.</i> 10:317-322, 1998.		
C23	HIRANO, "SMC-Mediated Chromosome Mechanics: A Conserved Scheme from Bacteria to Vertebrates," <i>Genes Dev.</i> 13:11-19, 1999.		
C24	HIRANO, "The ABCs of SMC Proteins: Two-Armed ATPases for Chromosome Condensation, Cohesion, and Repair," <i>Genes Dev.</i> 16:399-414, 2002.		
C25	HIRANO <i>et al.</i> , "Hinge-Mediated Dimerization of SMC Protein is Essential for its Dynamic Interaction with DNA," <i>EMBO J.</i> 21:5733-5744, 2002.		
C26	HOLMBERG <i>et al.</i> , "E2F-1-Induced p53-Independent Apoptosis in Transgenic Mice," <i>Oncogene</i> 17:143-155, 1998.		
C27	HUNT <i>et al.</i> , "To Err (Meiotically) is Human: The Genesis of Human Aneuploidy," <i>Nature Rev. Genetics</i> 2:280-291, 2002.		
C28	JESSBERGER <i>et al.</i> , "Repair of Deletions and Double-Strand Gaps by Homologous Recombination in a Mammalian <i>In Vitro</i> System," <i>Mol. Cell. Biol.</i> 11:445-457, 1991.		
C29	JESSBERGER <i>et al.</i> , "A Mammalian Protein Complex That Repairs Double-Strand Breaks and Deletions by Recombination," <i>J. Biol. Chem.</i> 268:15070-15079, 1993.		
C30	JESSBERGER <i>et al.</i> , "Stimulation of Defective DNA Transfer Activity in Recombination Deficient SCID Cell Extracts by a 72-kDa Protein from Wild-Type Thymocytes," <i>J. Biol. Chem.</i> 270:6788-6797, 1995.		
Examiner Signature	/Dana Shin/	Date Considered	09/02/2008

Approved for use through 07/31/2008, OMB 0651-0031
 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number	10/570,047	
			Filing Date	February 28, 2006	
			First Named Inventor	Rolf Jessberger	
			Art Unit	Not Yet Assigned	
			Examiner Name	Not Yet Assigned	
Sheet	3	of	6	Attorney Docket Number	29636/39363A

C31	JESSBERGER <i>et al.</i> , "SMC Proteins Constitute Two Subunits of the Mammalian Recombination Complex RC-1," <i>EMBO J.</i> 15:4061-4068, 1996.	
C32	JESSBERGER <i>et al.</i> , "Chromosome Dynamics: The SMC Protein Family," <i>Curr. Opin. Genet. Dev.</i> 8:254-259, 1998.	
C33	JESSBERGER, "The Many Functions of SMC Proteins in Chromosome Dynamics," <i>Nature Reviews, Mol. Cell. Biol.</i> 3: 767-778, 2002.	
C34	JONES <i>et al.</i> , "The Cohesin Complex: Sequence Homologies, Interaction Networks and Shared Motifs," <i>Genome Biol.</i> 2:research0009.1-0009.12, 2001.	
C35	KIM <i>et al.</i> , "Involvement of the Cohesin Protein, SMC1, in Atm-Dependent and Independent Responses to DNA Damage," <i>Genes Dev.</i> 16:560-570, 2002.	
C36	KIMURA <i>et al.</i> , "Expression and Localization of Prolyl Oligopeptidase in Mouse Testis and Its Possible Involvement in Sperm Motility," <i>Zool. Sci.</i> 19:93-102, 2002.	
C37	KLEIN <i>et al.</i> , "A Central Role for Cohesins in Sister Chromatid Cohesion, Formation of Axial Elements, and Recombination during Yeast Meiosis," <i>Cell</i> 98: 91-103, 1999.	
C38	KOEHLER <i>et al.</i> , "Genetic Control of Mammalian Meiotic Recombination. I. Variation in Exchange Frequencies among Males from Inbred Mouse Strains," <i>Genetics</i> 162: 297-306, 2002.	
C39	LALORAYA <i>et al.</i> , "Chromosomal Addresses of the Cohesin Component Mcd1p," <i>J. Cell Biol.</i> 151:1047-1056, 2000.	
C40	LAM <i>et al.</i> , "The Separation, Physical Characterization, and Differentiation Kinetics of Spermatogonial Cells of the Mouse," <i>Proc. Natl. Acad. Sci. USA</i> 65:192-199, 1970.	
C41	LEHMANN <i>et al.</i> , "The <i>rad18</i> Gene of <i>Schizosaccharomyces pombe</i> Defines a New Subgroup of the SMC Superfamily Involved in DNA Repair," <i>Mol. Cell. Biol.</i> 15:7067-7080, 1995.	
C42	LIEB <i>et al.</i> , "MIX-1: An Essential Component of the <i>C. elegans</i> Mitotic Machinery Executes X Chromosome Dosage Compensation," <i>Cell</i> 92:265-277, 1998.	
C43	LILFORD <i>et al.</i> , "Case Control Study of Whether Subfertility in Men is Familial," <i>BMJ</i> 309:570-573, 1994.	
C44	LIU <i>et al.</i> , "A Role for Cyclin A1 in the Activation of MPF and G2-M Transition during Meiosis of Male Germ Cells in Mice," <i>Dev Biol.</i> 224:388-400, 2000.	
C45	LOSADA <i>et al.</i> , "Identification of Xenopus SMC Protein Complexes Required for Sister Chromatid Cohesion," <i>Genes Dev.</i> 12:1986-1997, 1998.	
C46	LUFKIN <i>et al.</i> , "High Postnatal Lethality and Testis Degeneration in Retinoic Acid Receptor α Mutant Mice," <i>Proc. Natl. Acad. Sci. USA</i> 90:7225-7229, 1993.	
C47	MARTIN-DU PAN <i>et al.</i> , "Physiopathology of Spermatogenic Arrest," <i>Fertil. Steril.</i> 60:937-946, 1993.	
C48	MASAT <i>et al.</i> , "Association of SWAP-70 with the B Cell Antigen Receptor Complex," <i>Proc. Natl. Acad. Sci. USA</i> 97:2180-2184, 2000.	
C49	MEGEE <i>et al.</i> , "The Centromeric Sister Chromatid Cohesion Site Directs Mcd1p Binding to Adjacent Sequences," <i>Mol. Cell.</i> 4:445-450, 1999.	
C50	MELBY <i>et al.</i> , "The Symmetrical Structure of Structural Maintenance of Chromosomes (SMC) and MukB Proteins: Long, Antiparallel Coiled Coils, Folded at a Flexible Hinge," <i>J. Cell. Biol.</i> 142:1595-1604, 1998.	
C51	MICHAELIS <i>et al.</i> , "Cohesins: Chromosomal Proteins that Prevent Premature Separation of Sister Chromatids," <i>Cell</i> 91:35-46, 1997.	

Examiner Signature	/Dana Shriv	Date Considered	09/02/2008
--------------------	-------------	-----------------	------------

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006 OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	4	of	6	Complete if Known	
-------	---	----	---	-------------------	--

Application Number	10/570,047
Filing Date	February 28, 2006
First Named Inventor	Rolf Jessberger
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29636/39363A

C52	MOROTOMI-YANO <i>et al.</i> , "Human Regulatory Factor X 4 (RFX4) Is a Testis-Specific Dimeric DNA-Binding Protein That Cooperates with Other Human RFX Members," <i>J. Biol. Chem.</i> 277:836-842, 2002.
C53	NCBI Database GenBank accession number AAH09904.
C54	NCBI Database GenBank accession number AF303027.
C55	NCBI Database GenBank accession number AK010311.
C56	NCBI Database GenBank accession number BAB30190.
C57	NCBI Database GenBank accession number NC_000022.
C58	NCBI Database GenBank accession number NM_015663.
C59	NCBI Database GenBank accession number NM_006476.
C60	NCBI Database GenBank accession number NM_148674.
C61	NCBI Database GenBank accession number NP_030406.
C62	NCBI Database GenBank accession number NP_636749.
C63	NCBI Database GenBank accession number NP_636745.
C64	NCBI Database GenBank accession number NT_014522.
C65	NICOLAIDIS <i>et al.</i> , "Origin and Mechanisms of Non-Disjunction in Human Autosomal Trisomies," <i>Human Reprod.</i> 13:313-319, 1998.
C66	OLEK <i>et al.</i> , "A Modified and Improved Method for Bisulphite Based Cytosine Methylation Analysis," <i>Nucleic Acids Res.</i> 24:5064-5066, 1996.
C67	PELTARI <i>et al.</i> , "A Meiotic Chromosomal Core Consisting of Cohesin Complex Proteins Recruits DNA Recombination Proteins and Promotes Synapsis in the Absence of an Axial Element in Mammalian Meiotic Cells," <i>Mol. Cell. Biol.</i> 21:5667-5777, 2001.
C68	PETERS <i>et al.</i> , "A Drying-Down Technique for the Spreading of Mammalian Meocytes from the Male and Female Germine," <i>Chromosome Res.</i> 5:66-68, 1997.
C69	PETRONCZKI <i>et al.</i> , "Un Ménage à Quatre: The Molecular Biology of Chromosome Segregation in Meiosis," <i>Cell</i> 112:423-440, 2003.
C70	POLGAR, "The Prolyl Oligopeptidase Family," <i>Cell. Mol. Life Sci.</i> 59:349-362, 2002.
C71	RAVNIK <i>et al.</i> , "Regulation of Meiosis during Mammalian Spermatogenesis: The A-Type Cyclins and Their Associated Cyclin-Dependent Kinases Are Differentially Expressed in the Germ-Cell Lineage," <i>Dev. Biol.</i> 207:408-418, 1999.
C72	REITH <i>et al.</i> , "RFX1, a Transactivator of Hepatitis B Virus Enhancer I, Belongs to a Novel Family of Homodimeric and Heterodimeric DNA-Binding Proteins," <i>Mol. Cell. Biol.</i> 14:1230-1244, 1994.
C73	REVENKOVA <i>et al.</i> , "Novel Meiosis-Specific Isoform of Mammalian SMC1," <i>Mol. Cell. Biol.</i> 21:6984-6998, 2001.
C74	SAGE <i>et al.</i> , "Temporal and Spatial Control of the <i>Sycp1</i> Gene Transcription in the Mouse Meiosis: Regulatory Elements Active in the Male are not Sufficient for Expression in the Female Germ," <i>Mech. Dev.</i> 80:29-39, 1999.
C75	SCHERF <i>et al.</i> , "Highly Specific Localization of Promoter Regions in Large Genomic Sequences by PromoterInspector: A Novel Context Analysis Approach," <i>J. Mol. Biol.</i> 297:599-606, 2000.

Examiner Signature	/Dana Shir/	Date Considered	09/02/2008
--------------------	-------------	-----------------	------------

PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known Application Number 10/570,047 Filing Date February 28, 2006 First Named Inventor Rolf Jessberger Art Unit Not Yet Assigned Examiner Name Not Yet Assigned Attorney Docket Number 29636/39363A		
Sheet	5	of	6		

C76		SCHERTHAN <i>et al.</i> , "Centromere and Telomere Movements during Early Meiotic Prophase of Mouse and Man Are Associated with the Onset of Chromosome Pairing," <i>J. Cell. Biol.</i> 134:1109-1125, 1996.	
C77		SCHERTHAN <i>et al.</i> , "Mammalian Meiotic Telomeres: Protein Composition and Redistribution in Relation to Nuclear Pores," <i>Mol. Biol. Cell</i> 11:4189-4203, 2000.	
C78		SHAPER <i>et al.</i> , "Male Germ Cell Expression of Murine β -Galactosyltransferase," <i>J. Biol. Chem.</i> 269:25165-25171, 1994.	
C79		SHINOHARA <i>et al.</i> , "SWAP-70 is a Guanine-Nucleotide-Exchange Factor that Mediates Signalling of Membrane Ruffling," <i>Nature</i> 416:759-763, 2002.	
C80		STEAUUX <i>et al.</i> , "A Revised Picture of the E2F Transcriptional Network and RB Function," <i>Curr. Opin. Cell. Biol.</i> 14:684-691, 2002.	
C81		STRUNNIKOV <i>et al.</i> , "SMC2, a <i>Saccharomyces cerevisiae</i> Gene Essential for Chromosome Segregation and Condensation, Defines a Subgroup within the SMC Family," <i>Genes Dev.</i> 9:587-599, 1995.	
C82		STRUNNIKOV, "SMC Proteins and Chromosome Structure," <i>Trends Cell. Biol.</i> 8:454-459, 1998.	
C83		STRUNNIKOV <i>et al.</i> , "Structural Maintenance of Chromosomes (SMC) Proteins Conserved Molecular Properties for Multiple Biological Functions," <i>Europ. J. Biochem.</i> 263:6-13, 1999.	
C84		STURSBURG <i>et al.</i> , "Cloning and Characterization of Mammalian SMC1 and SMC3 Genes and Proteins, Components of the DNA Recombination Complexes RC-1," <i>Gene</i> 228:1-12, 1999.	
C85		SUTANI <i>et al.</i> , "DNA Renaturation Activity of the SMC Complex Implicated in Chromosome Condensation," <i>Nature</i> , 388:798-801, 1997.	
C86		TANAKA <i>et al.</i> , "Identification of Cohesin Association Sites at Centromeres and along Chromosome Arms," <i>Cell</i> , 98:847-858, 1999.	
C87		TARKOWSKI, "An Air-Drying Method for Chromosome Preparations from Mouse Eggs," <i>Cytogenetics</i> 5:394-400, 1966.	
C88		UHLMANN, "Chromosome Cohesion and Segregation in Mitosis and Meiosis," <i>Curr. Opin. Cell. Biol.</i> 13:754-761, 2001.	
C89		UHLMANN <i>et al.</i> , "Cleavage of Cohesin by the CD Clan Protease Separin Triggers Anaphase in Yeast," <i>Cell</i> 103:375-386, 2000.	
C90		UHLMANN <i>et al.</i> , "Sister-Chromatid Separation at Anaphase Onset is Promoted by Cleavage of the Cohesin Subunit Scc1," <i>Nature</i> 400:37-42, 1999.	
C91		WAZENEGGER <i>et al.</i> , "Two Distinct Pathways Remove Mammalian Cohesin from Chromosome Arms in Prophase and from Centromeres in Anaphase," <i>Cell</i> 103:399-410, 2000.	
C92		WATANABE <i>et al.</i> , "Cohesin Rec8 is Required for Reductional Chromosome Segregation at Meiosis," <i>Nature</i> 400:461-464, 2001.	
C93		WEI, "Retinoid Receptors and Their Coregulators," <i>Annu. Rev. Pharmacol. Toxicol.</i> 43:47-72, 2003.	
C94		WILTSHIRE <i>et al.</i> , "Induced Premature G2/M-Phase Transition in Pachytene Spermatocytes Includes Events Unique to Meiosis," <i>Dev. Biol.</i> 169, 557-567, 1995.	

Examiner Signature	/Dana Shin/	Date Considered	09/02/2008
--------------------	-------------	-----------------	------------

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/D/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/570,047
				Filing Date	February 28, 2006
				First Named Inventor	Rolf Jessberger
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	6	of	6	Attorney Docket Number	29636/39363A

C95	WU <i>et al.</i> , "The <i>sak1</i> ⁺ Gene of <i>Schizosaccharomyces pombe</i> Encodes an RFX Family DNA-Binding Protein That Positively Regulates Cyclic AMP-Dependent Protein Kinase-Mediated Exit from the Mitotic Cell Cycle," <i>Mol. Cell. Biol.</i> 15:1479-1488, 1995.	
C96	XIE <i>et al.</i> , "Regulation of ALF Gene Expression in Somatic and Male Germ Line Tissues Involves Partial and Site-Specific Patterns of Methylation," <i>J. Biol. Chem.</i> 277:17765-17774, 2002.	
C97	YAMASAKI <i>et al.</i> , "Tumor Induction and Tissue Atrophy in Mice Lacking E2F-1," <i>Cell</i> 85:537-548, 1996.	
C98	YAZDI <i>et al.</i> , "SMC1 Is a Downstream Effector in the ATM/NBS1 Branch of the Human S-Phase Checkpoint," <i>Genes Dev.</i> 16:571-582, 2002.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Dana Shin/	Date Considered	09/02/2008
-----------------------	-------------	--------------------	------------



Approved for use through 07/31/2006. OMB 0651-0031
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application No. (if known): 10/570,047

Attorney Docket No.: 29636/39363A

Certificate of Mailing under 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

MS Amendment
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

on November 1, 2006
 Date

Signature

Lynn L. Janulis

Typed or printed name of person signing Certificate

53,066
 Registration Number, if applicable

(312) 474-6300
 Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Information Disclosure Statement
 PTO/SB/08